

Fully Automated Magtration® System 12GC for Genomic DNA Purification from Whole Blood



Performance of Genomic DNA Purification from whole blood

Table 1. Materials and Reagents

Sample	Human whole Blood treated with EDTA-2Na
Reagent	GC series Genomic DNA whole blood (Code No. E1010)
IC-card for Protocol	Genomic DNA whole blood (Code No. I-1210)
Sample Volume	100 µl
Elution Volume	100 µl
Operation Time	Approx. 30 min

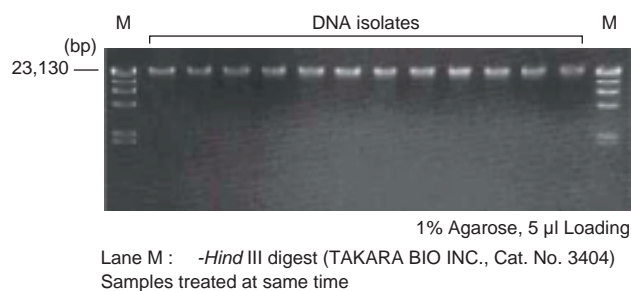


Figure 1. Agarose gel electrophoresis of purified genomic DNA from whole blood by Magtration® System 12GC.

Table 2. Yield and Purity (n=12)

Sample	Yield(µg)	A ₂₆₀ /A ₂₈₀
Human whole Blood treated with EDTA-2Na	1.57 ± 0.08	1.85 ± 0.05

Performance of GC series Magtration® Genomic DNA Reagents.

Table 3. Materials and Reagents

Sample	Human whole Blood treated with EDTA-2Na, ACD or Heparin
Reagent	GC series Magtration® Genomic DNA (Code No. E1010)
IC-card for Protocol	Genomic DNA whole blood (Code No. I-1210)
Sample	100 µl
Elution	100 µl

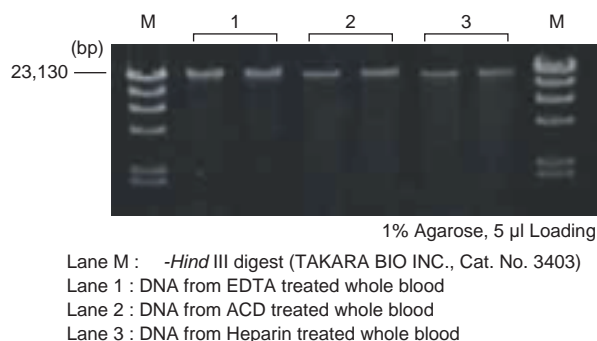
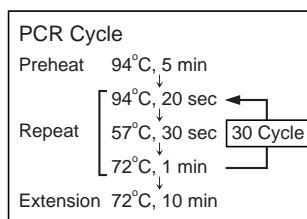
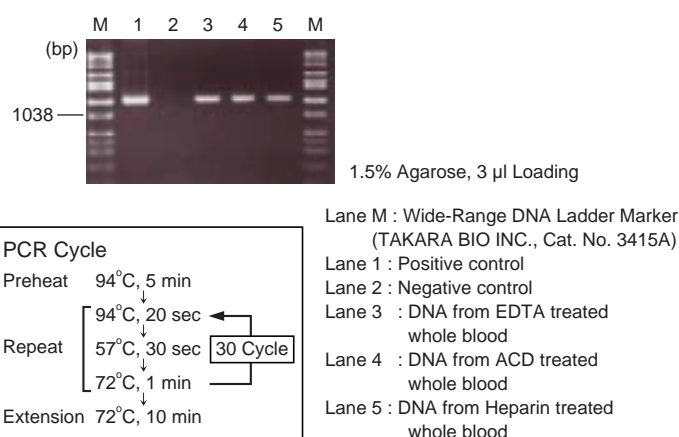


Figure 2. Agarose gel electrophoresis of purified DNA from whole blood with the different types of anticoagulant.



Template	50 ng
Primer Target	Benzodiazepine (BZD) receptor (located on GABA receptor) 1038bp
Enzyme	TaKaRa Ex Taq (0.25 units)

Figure 3. PCR amplification using DNA purified from whole blood with different types of anticoagulant.

Advantage

The data of Magtration® System 12GC would be the most reliable Genomic DNA purification system in the current market. Magtration® System 12GC enables to proceed in a short time in a small footprint on a lab-bench.

- Purified approx. 1.5 µg of Genomic DNA from whole blood 100 µl with approx. 30 minutes.
- Purity between 1.8 and 1.9 at A₂₆₀/A₂₈₀ ratio.
- Direct use in downstream studies, such as PCR, restriction enzyme digestion.
- True walk-away automation system.



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